GENLED Brands
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Report No.: **Test Time: 2022/8/30 09:36**

Luminaire Property

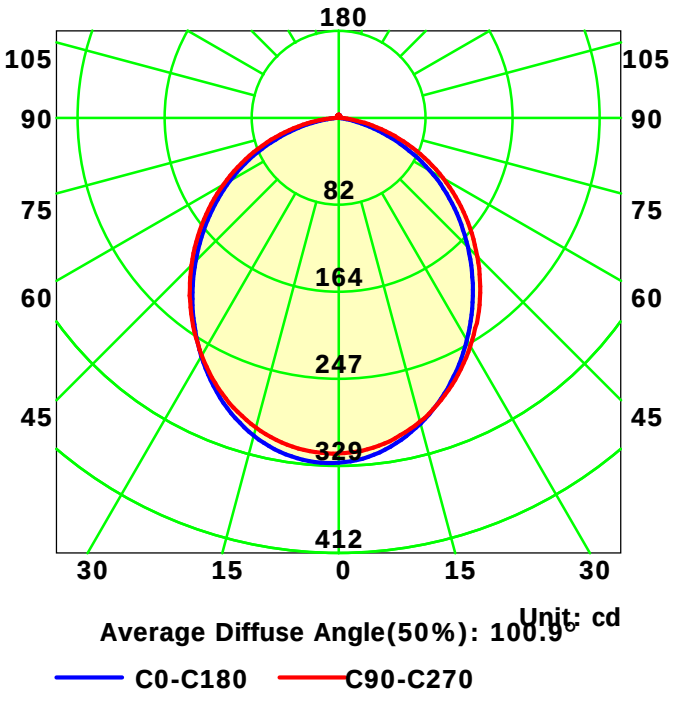
Luminaire Manufacturer:
Luminaire Category: PPNW23030MMBK **Luminaire Description: PPNW23030MMBK**
Lamp Catalog: A SIDE **Luminous Length (mm): 610**
Luminous Width (mm): 24 **Luminous Height (mm): 100**
Voltage: 24.0 V **Current: 0.985 A**
Power: 23.62 W **Power Factor: 1.000**

Photometric Results

CIE Class: Direct **Total Rated Lamp Lumens: 801.8 lm**
Measurement Flux: 801.8 lm **Efficiency: 100%**
Downward Ratio: 99% **Upward Ratio: 1%**
Horizontal Diffuse Angle(10%,50%): H151,H97.9
Vertical Diffuse Angle(10%,50%): V157.1,V103.9
Luminaire Efficacy Rating (LER): 34 **Central Intensity: 326.59 cd**
Max. Intensity: 327.05 cd **Pos of Max. Intensity: H180 V2**

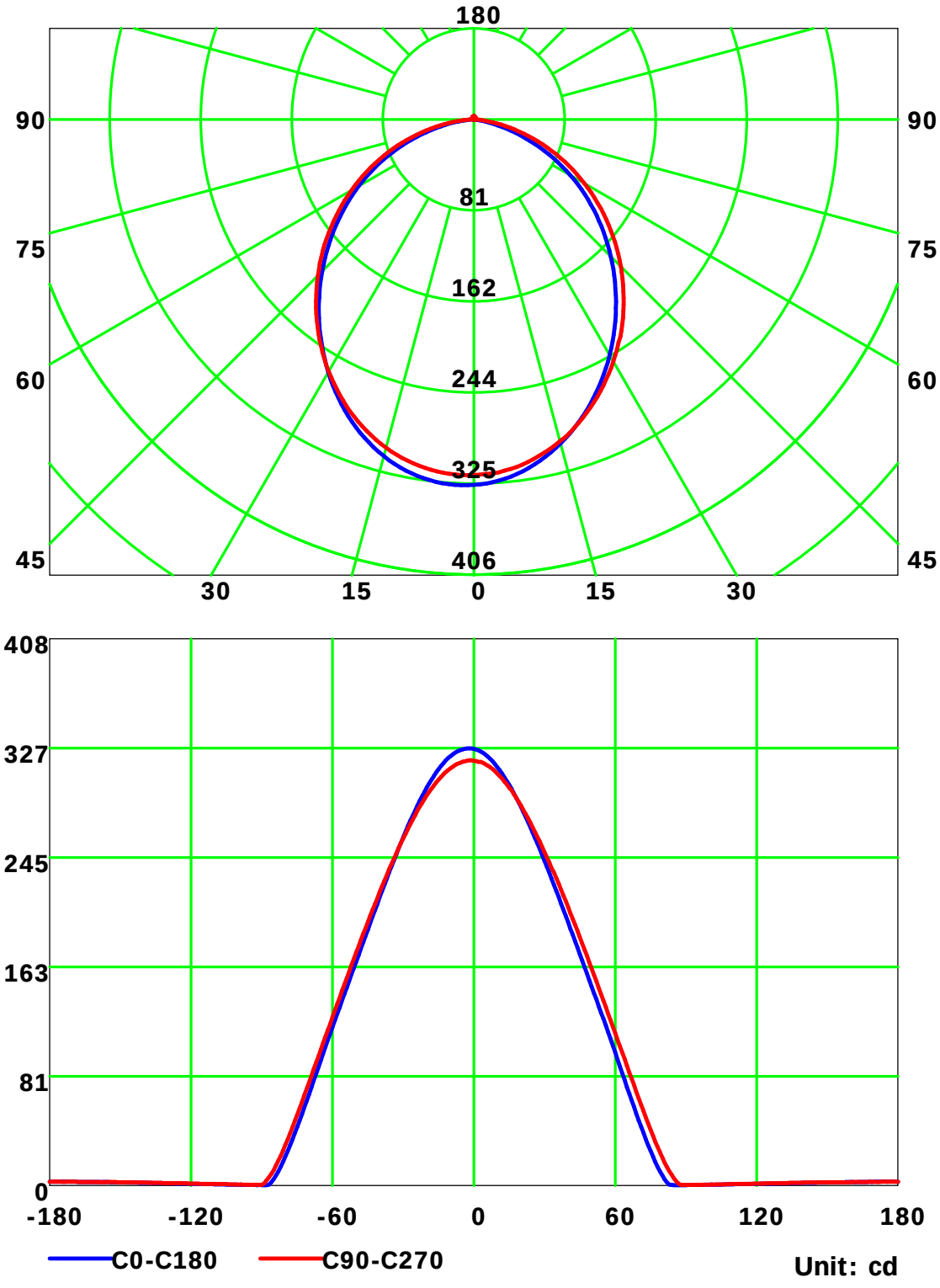
Picture Of Luminaire

Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 30.0 **Gamma Plane (°):0.0-180.0:1.0**
Test Lab: **Test Device: GPM-1800B**
Test Type: TYPE C **Distance: 9.028 m**
Temperature: 25 **Humidity: 60%**
Operator: Jacky **Inspector:**

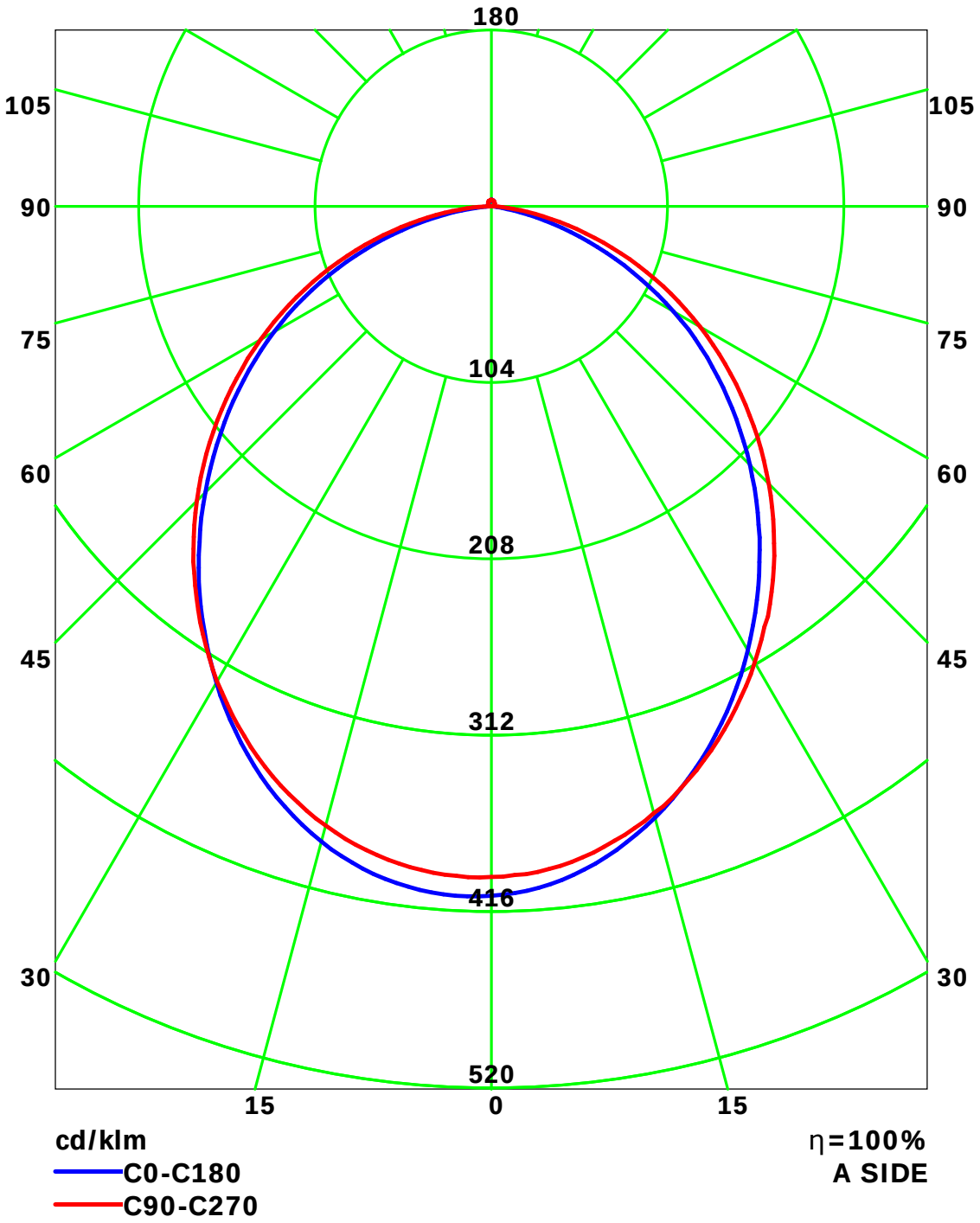
Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:

Luminous Intensity Distribution Curve(cd/klm)



C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator: Jacky

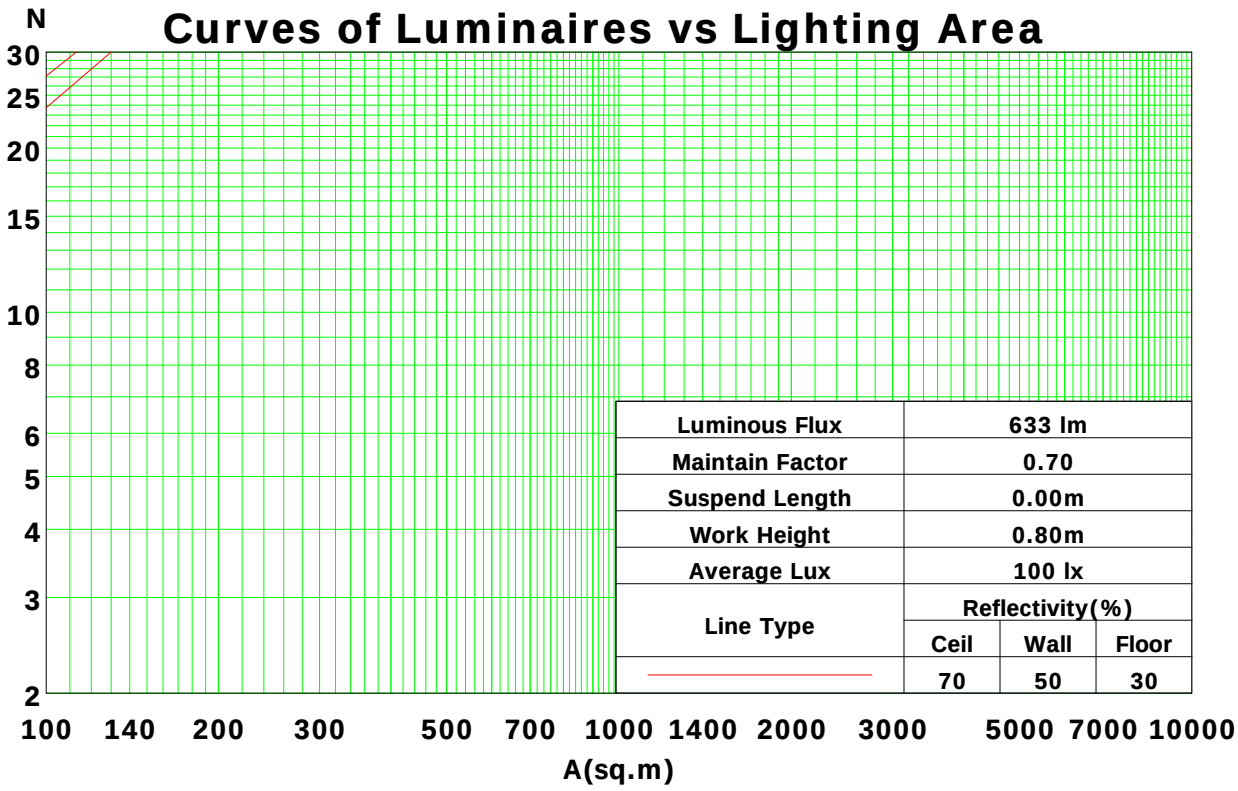
Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:

Coefficients Of Utilization - Zonal Cavity Method

RC	0.8	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.5	0.5	0.5	0.3	0.3	0.3	0.1	0.1	0.1	0
RW	0.7	0.5	0.3	0.1	0.7	0.5	0.3	0.1	0.5	0.3	0.1	0.5	0.3	0.1	0.5	0.3	0.1	0
RCR	RF = 0.2																	
0	119	119	119	119	116	116	116	116	110	110	110	105	105	105	101	101	101	99
1	109	105	101	97	106	102	99	95	98	95	92	94	91	89	90	88	86	84
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	76	73	71
3	91	81	73	67	89	79	72	66	76	70	65	73	68	64	71	66	62	60
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	63	58	54	52
5	77	65	56	50	75	63	55	49	61	54	49	59	53	48	57	52	47	45
6	71	58	50	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40
7	66	53	45	39	64	52	44	38	51	43	38	49	42	38	48	42	37	35
8	62	49	40	34	60	48	40	34	46	39	34	45	39	34	44	38	33	32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	40	35	30	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

Spacing Criteria (0-180): 1.16
Spacing Criteria (90-270): 1.20
Spacing Criteria (Diagonal): 1.27

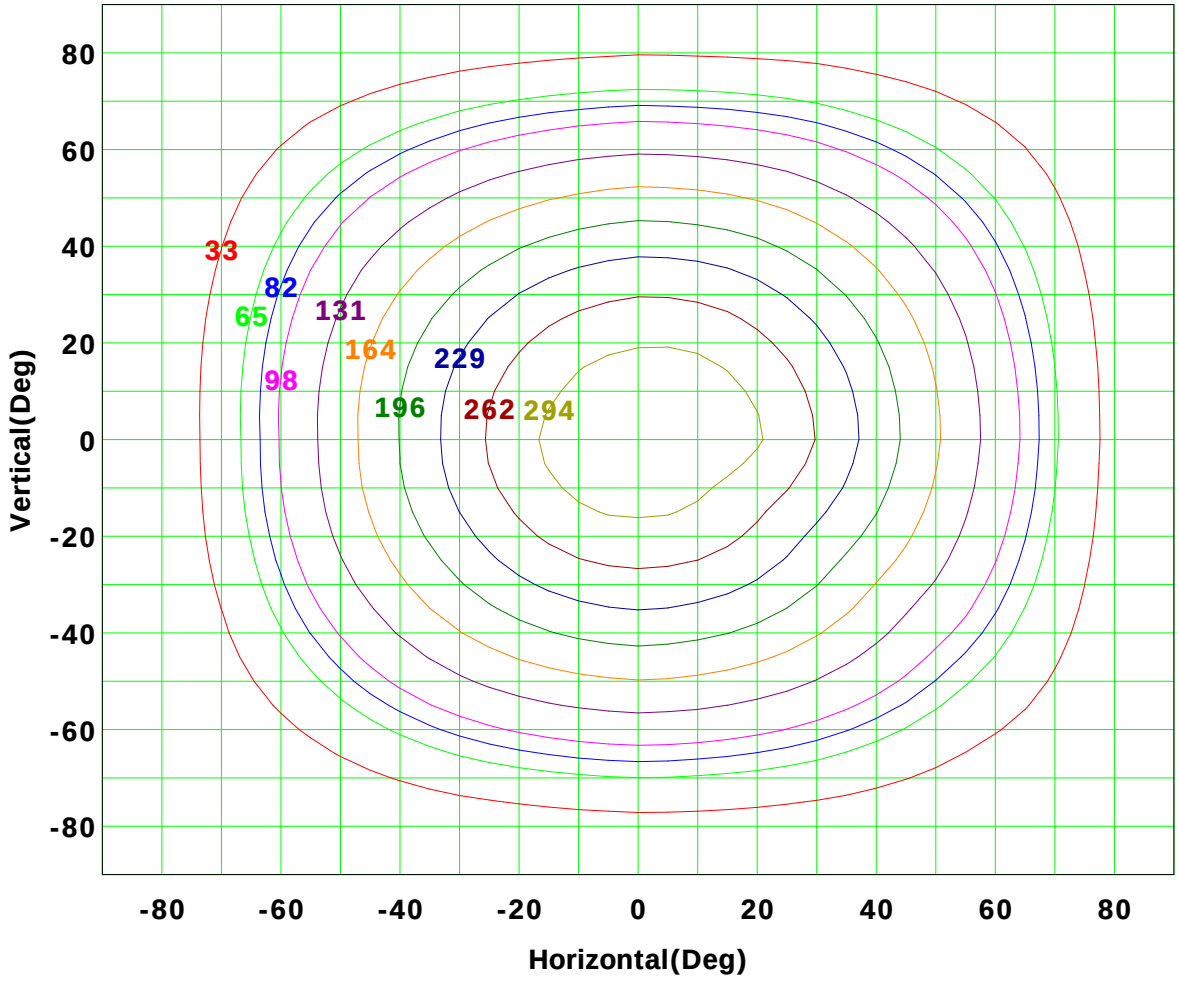
Curves of Luminaires vs Lighting Area



C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:

Isocandela (rectangle)



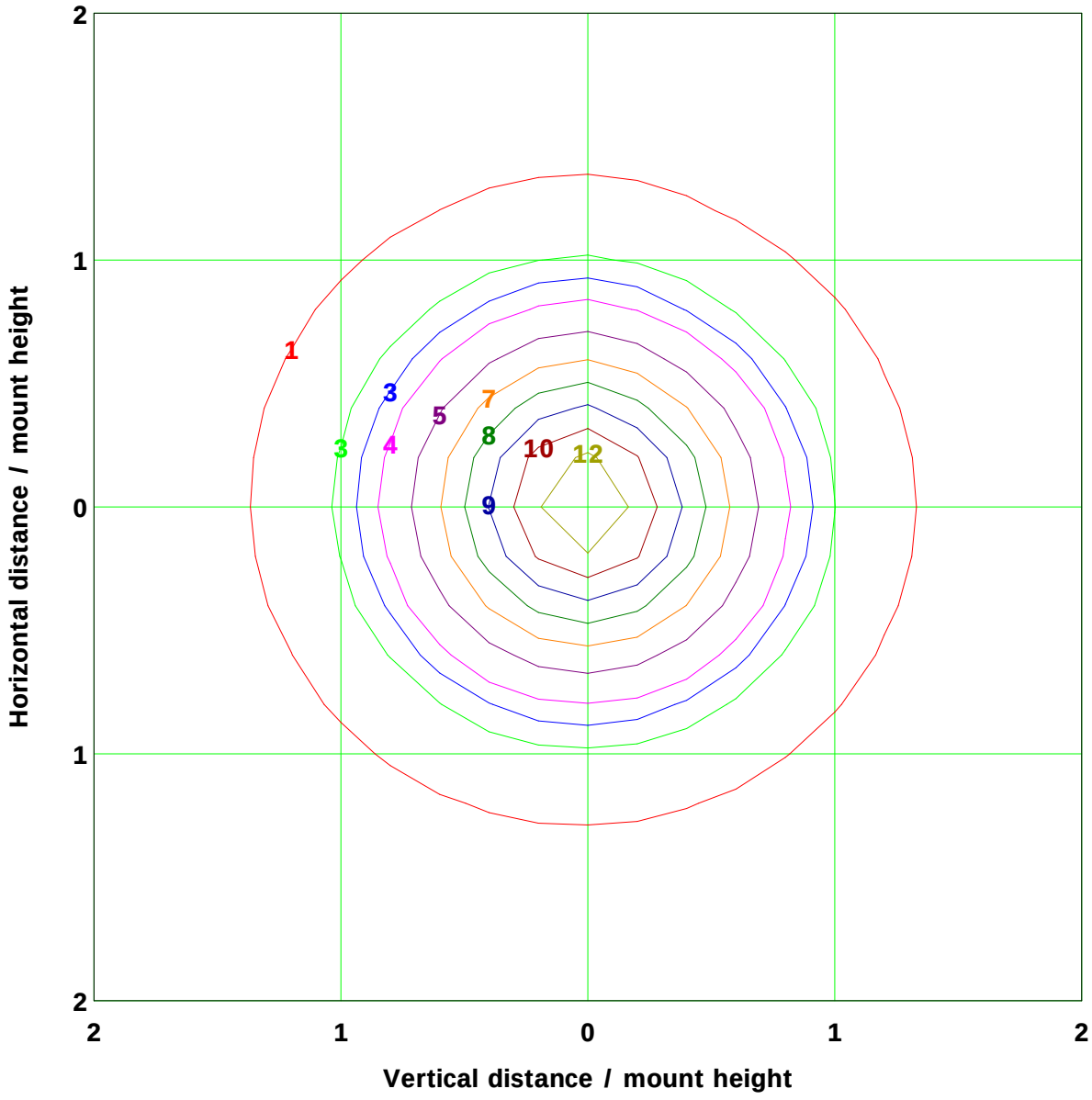
Imax (100%): 327 cd

(10%):	33 cd	(20%):	65 cd
(25%):	82 cd	(30%):	98 cd
(40%):	131 cd	(50%):	164 cd
(60%):	196 cd	(70%):	229 cd
(80%):	262 cd	(90%):	294 cd

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:

IsoLux Plot



Mounting Height: 5.0m Max Lux(100%): 13.1 lx

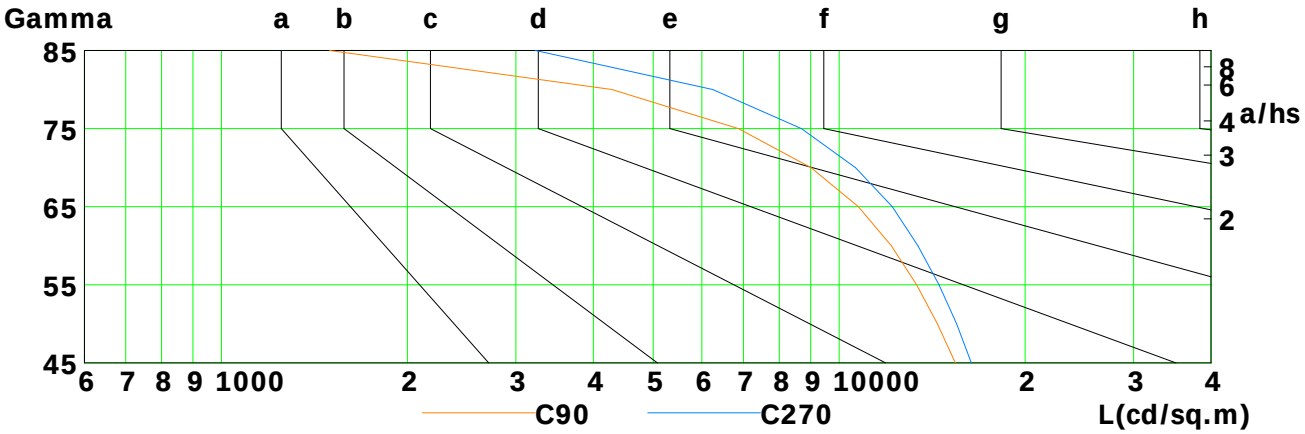
(10%): 1.3 lx	(20%): 2.6 lx
(25%): 3.3 lx	(30%): 3.9 lx
(40%): 5.2 lx	(50%): 6.5 lx
(60%): 7.8 lx	(70%): 9.1 lx
(80%): 10.5 lx	(90%): 11.8 lx

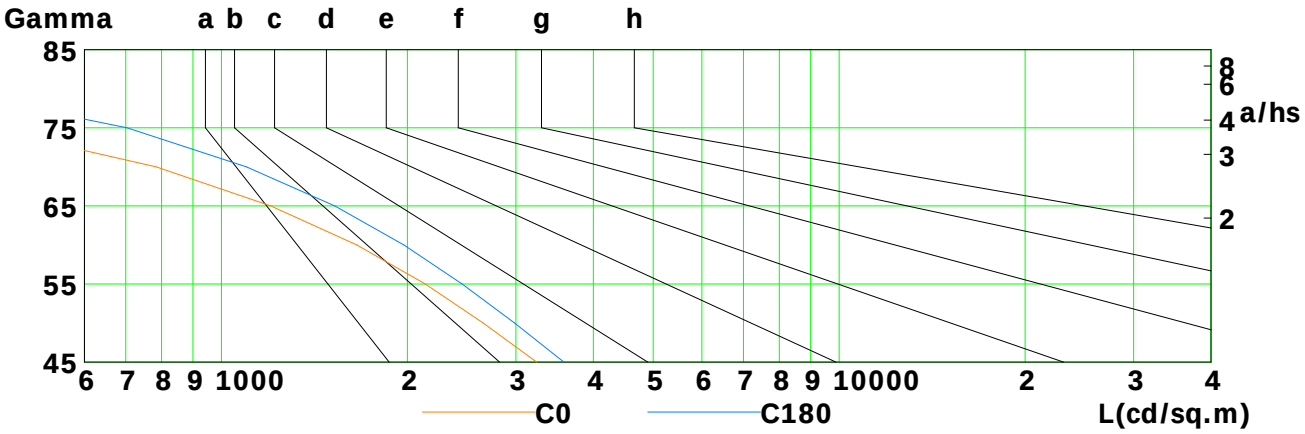
C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:

Lum Limit Curve

Dazzle	Quality	Illuminance (lx)							
1.15	A	2000	1000	500	<=300				
1.50	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.20	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h



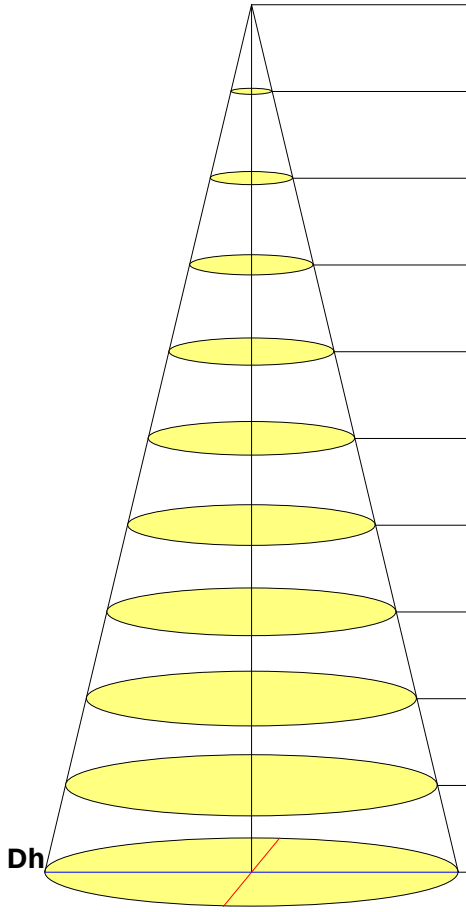


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	3239	2653	2140	1658	1202	784	417	122	8
C90	15435	14431	13358	12148	10748	9004	6874	4291	1497
C180	3584	2984	2454	1975	1527	1098	703	352	81
C270	16381	15504	14509	13419	12189	10627	8694	6244	3223

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:

Illuminance at a Distance



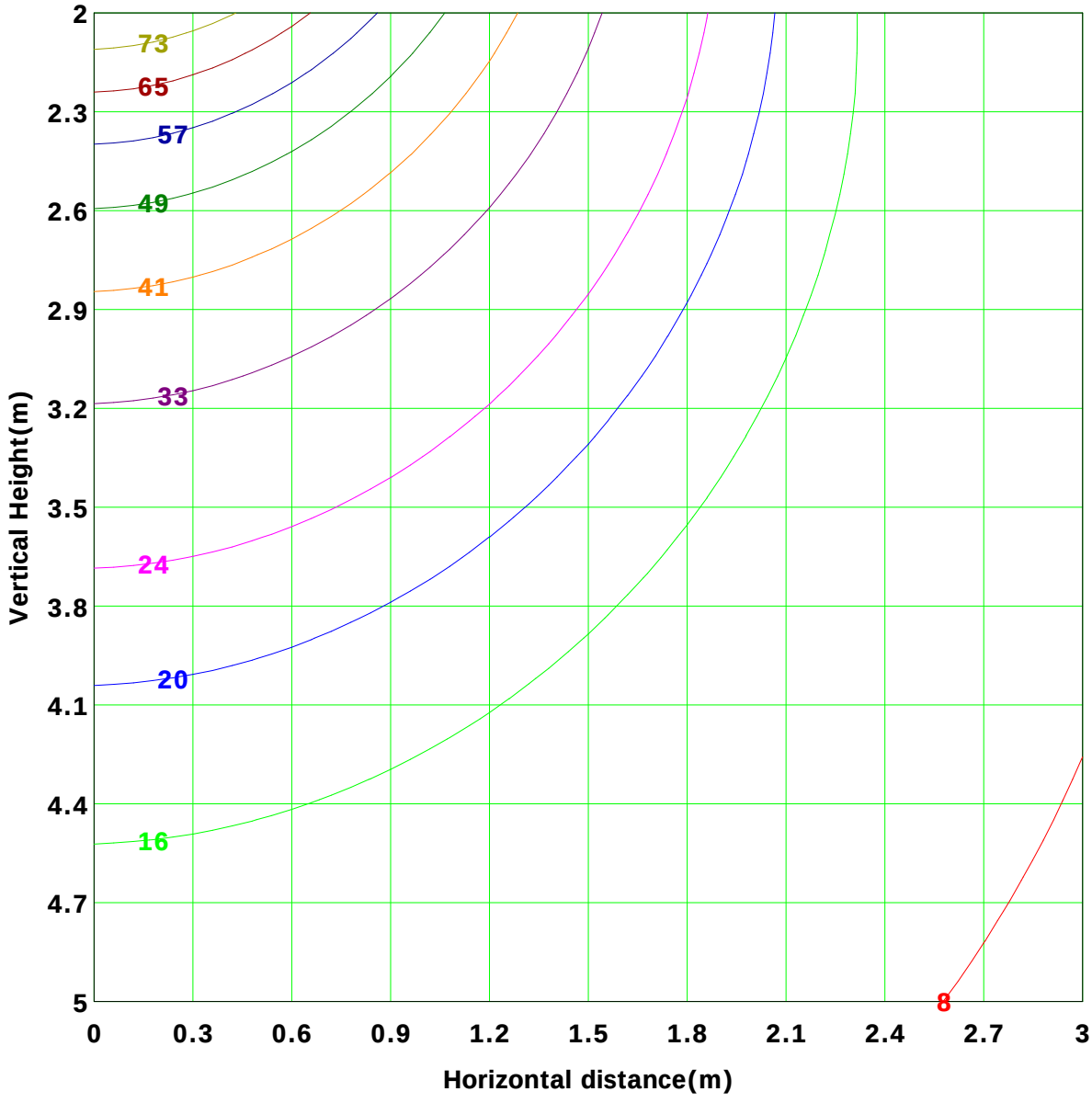
Dist(m)	Enadir(lx)	Dh/Dv_B(m)	S_B(sq.m)	Eav_B(lx)
1.0	326.59	2.29/2.56	4.6	66.25
2.0	81.65	4.59/5.11	18.5	16.56
3.0	36.29	6.88/7.67	41.6	7.36
4.0	20.41	9.18/10.23	74.0	4.14
5.0	13.06	11.47/12.78	115.6	2.65
6.0	9.07	13.77/15.34	166.5	1.84
7.0	6.67	16.06/17.90	226.6	1.35
8.0	5.10	18.36/20.46	296.0	1.04
9.0	4.03	20.65/23.01	374.6	0.82
10.0	3.27	22.95/25.57	462.5	0.66

Beam Angle(B): H97.9 V103.9 Field Angle(F): H151.0 V157.1

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:

Vertical IsoLux Plot



Lowest(m): 2.0m Highest(m): 5.0m Max Lux: 81.6 lx

(10%): 8.2 lx	(20%): 16.3 lx
(25%): 20.4 lx	(30%): 24.5 lx
(40%): 32.7 lx	(50%): 40.8 lx
(60%): 49.0 lx	(70%): 57.2 lx
(80%): 65.3 lx	(90%): 73.5 lx

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:

Area Flux Table

Unit: lm

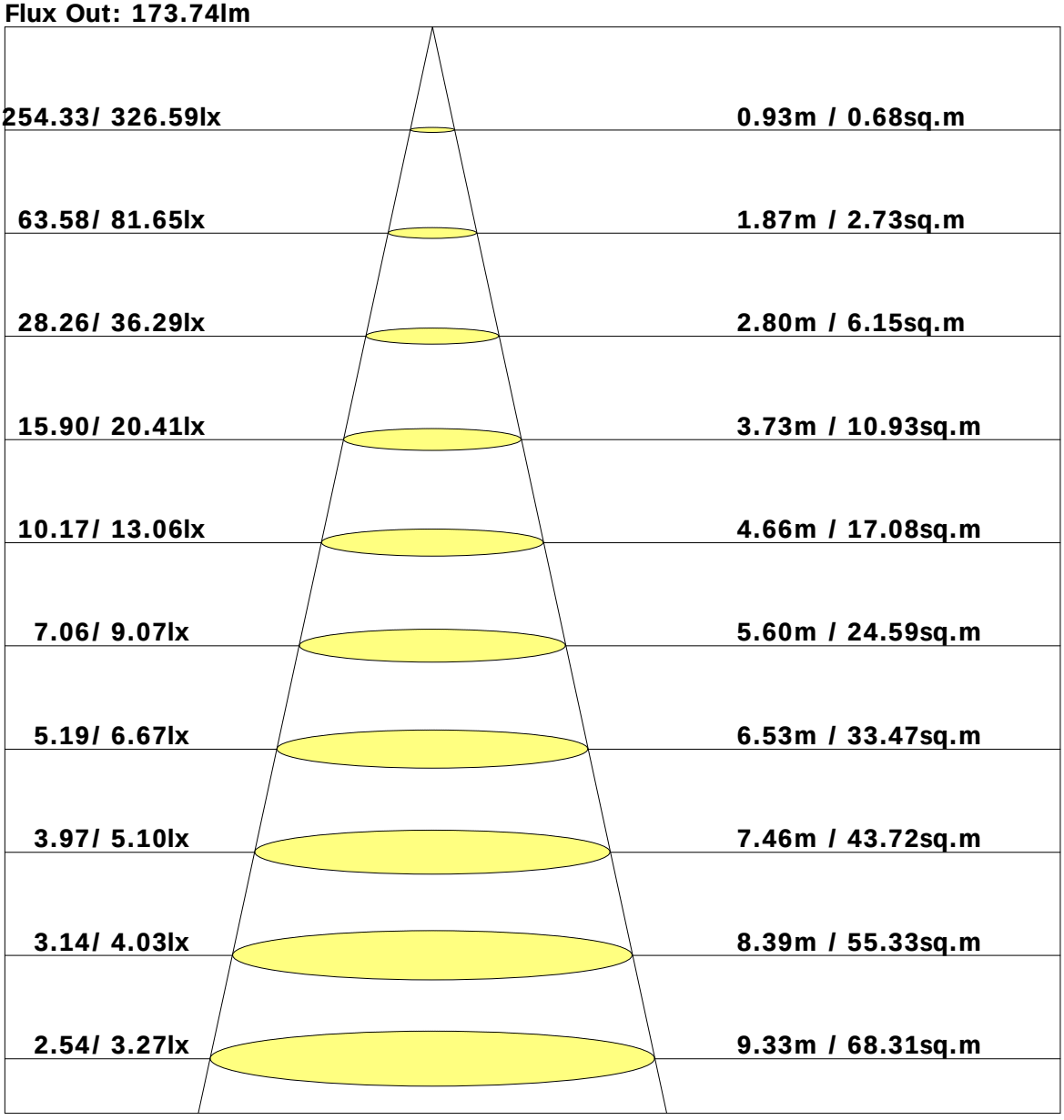
Horizontal plane	Vertical plane																									
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90	Flux(T)	Flux(E)
-90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0
-80	0.0	0.0	0.0	0.0	0.1	0.2	0.3	0.4	0.4	0.4	0.4	0.3	0.3	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0
-70	0.0	0.0	0.1	0.3	0.5	0.8	1.1	1.2	1.2	1.2	1.1	1.0	0.9	0.8	0.7	0.4	0.2	0.1	0.0	0.0	0.0
-60	0.0	0.1	0.3	0.8	1.2	1.6	2.2	2.4	2.4	2.5	2.3	2.1	1.9	1.8	1.4	1.0	0.6	0.2	0.0	0.0	0.0
-50	0.0	0.1	0.5	1.2	2.0	2.6	3.6	4.0	4.1	4.1	3.8	3.4	3.2	2.9	2.3	1.7	1.1	0.6	0.0	0.0	0.0
-40	0.0	0.2	0.8	1.6	2.9	3.7	5.2	5.7	5.9	5.8	5.4	4.8	4.5	4.2	3.4	2.4	1.4	0.7	0.0	0.0	0.0
-30	0.0	0.3	1.1	2.2	3.6	4.8	6.7	7.3	7.7	7.5	6.9	6.2	5.8	5.4	4.4	3.3	2.1	1.2	0.2	0.0	0.0
-20	0.0	0.4	1.2	2.4	4.0	5.5	7.8	8.6	9.0	8.8	8.2	7.4	6.8	6.4	5.1	3.8	2.5	1.2	0.2	0.0	0.0
-10	0.0	0.4	1.2	2.5	4.1	5.9	8.4	9.2	9.7	9.5	8.9	8.0	7.2	6.9	5.6	4.2	2.7	1.3	0.2	0.0	0.0
0	0.0	0.4	1.2	2.5	4.1	5.8	8.3	9.1	9.5	9.5	8.9	8.0	7.2	6.9	5.6	4.1	2.7	1.2	0.2	0.0	0.0
10	0.0	0.4	1.2	2.5	4.1	5.9	8.3	8.3	8.7	8.7	8.2	7.4	6.3	6.3	5.1	3.8	2.4	1.1	0.2	0.0	0.0
20	0.0	0.3	1.1	2.2	3.6	4.9	7.5	7.5	8.3	8.7	8.2	7.4	6.3	6.3	5.1	3.8	2.4	1.1	0.2	0.0	0.0
30	0.0	0.3	0.9	1.9	3.2	4.5	6.8	6.9	7.2	7.2	6.8	6.2	5.3	5.3	4.3	3.2	2.0	1.0	0.2	0.0	0.0
40	0.0	0.2	0.8	1.6	2.6	3.7	5.5	6.3	6.9	7.2	6.8	6.2	5.3	5.3	4.3	3.2	2.0	1.0	0.2	0.0	0.0
50	0.0	0.1	0.5	1.2	2.0	2.9	4.5	5.5	6.3	6.8	6.5	6.0	5.3	5.3	4.3	3.2	2.0	1.0	0.2	0.0	0.0
60	0.0	0.1	0.3	0.8	1.3	2.0	3.2	4.0	4.6	5.0	4.8	4.5	4.1	4.1	3.3	2.4	1.5	0.8	0.1	0.0	0.0
70	0.0	0.0	0.2	0.5	0.8	1.2	1.8	2.2	2.6	2.8	2.7	2.6	2.4	2.4	2.0	1.5	0.9	0.4	0.0	0.0	0.0
80	0.0	0.0	0.1	0.3	0.5	0.7	1.0	1.2	1.4	1.5	1.5	1.4	1.4	1.4	1.2	0.9	0.5	0.2	0.0	0.0	0.0
90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Flux(T)	0.3	3.4	11.8	24.9	41.3	59.5	76.8	90.2	97.3	96.5	88.0	73.6	56.0	38.0	21.8	9.2	2.0	0.1	790		
Flux(E)	0.0	2.2	10.9	24.0	40.4	58.6	75.9	89.3	96.3	95.6	87.1	72.7	55.1	37.1	20.8	8.2	0.7	0.0		775	

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:

The Average Illuminance Effective Figure

Flux Out: 173.74lm



Height Avg./Nadir. E Beam Angle:50.0° Diameter / Area

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:

UGR Table

Reflectance:										
Ceiling (cavity)	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
X=2H Y=2H	17.7	19.2	18.1	19.6	19.9	15.4	16.9	15.8	17.3	17.6
3H	18.9	20.3	19.3	20.7	21.0	16.5	17.8	16.9	18.2	18.6
4H	19.2	20.5	19.6	20.9	21.3	16.7	18.0	17.1	18.4	18.8
6H	19.2	20.4	19.7	20.8	21.3	16.8	18.0	17.2	18.4	18.8
8H	19.2	20.4	19.7	20.8	21.2	16.8	18.0	17.2	18.4	18.8
12H	19.2	20.3	19.6	20.7	21.2	16.8	17.9	17.2	18.3	18.8
X=4H Y=2H	17.9	19.2	18.3	19.6	20.0	15.9	17.2	16.3	17.6	18.0
3H	19.2	20.3	19.6	20.7	21.2	17.1	18.2	17.5	18.6	19.0
4H	19.5	20.5	20.0	20.9	21.4	17.4	18.4	17.9	18.8	19.3
6H	19.6	20.5	20.1	20.9	21.4	17.6	18.4	18.0	18.9	19.4
8H	19.6	20.4	20.1	20.9	21.4	17.6	18.3	18.0	18.8	19.3
12H	19.6	20.3	20.1	20.8	21.3	17.5	18.2	18.0	18.7	19.3
X=8H Y=4H	19.5	20.3	20.0	20.8	21.3	17.5	18.3	18.0	18.8	19.3
6H	19.6	20.3	20.2	20.8	21.3	17.7	18.3	18.2	18.8	19.4
8H	19.6	20.2	20.1	20.7	21.3	17.7	18.3	18.2	18.8	19.3
12H	19.6	20.1	20.1	20.6	21.2	17.7	18.2	18.2	18.7	19.3
X=12H Y=4H	19.5	20.2	20.0	20.7	21.2	17.5	18.2	18.0	18.7	19.2
6H	19.6	20.2	20.2	20.7	21.3	17.7	18.2	18.2	18.7	19.3
8H	19.6	20.1	20.1	20.6	21.2	17.7	18.2	18.2	18.7	19.3

Calculate in accordance with CIE 190:2010

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:

Utilisation Factor Table(Floor cavity)

Utilisation Factors UF(F)						SHR NOM = 1.25					
Room Reflectance			Room Index(RI)								
Ceiling	Wall	Floor	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00
0.70	0.50	0.20	0.59	0.69	0.77	0.82	0.89	0.94	0.97	1.01	1.04
	0.30		0.51	0.62	0.70	0.75	0.83	0.88	0.92	0.98	1.01
	0.20		0.46	0.56	0.64	0.70	0.78	0.84	0.88	0.94	0.98
0.50	0.50	0.20	0.57	0.67	0.74	0.79	0.86	0.90	0.93	0.97	1.00
	0.30		0.51	0.61	0.68	0.73	0.81	0.86	0.89	0.94	0.97
	0.20		0.46	0.56	0.63	0.69	0.76	0.82	0.86	0.91	0.95
0.30	0.50	0.20	0.56	0.65	0.72	0.76	0.82	0.87	0.89	0.93	0.96
	0.30		0.50	0.60	0.66	0.71	0.78	0.83	0.86	0.91	0.93
	0.20		0.45	0.55	0.62	0.67	0.75	0.80	0.84	0.88	0.91
0.00	0.00	0.00	0.43	0.52	0.59	0.64	0.71	0.76	0.79	0.84	0.86

Rating:24W Photometrically tested without ceiling board.

Multiply UF values by service correction factors

Calculate in accordance with CIBSE Technical Memorandum NO.5 1980

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:

Utilisation Factor Table(Wall)

Utilisation Factors UF(W)						SHR NOM = 1.25				
Room Reflectance			Room Index(RI)							
Ceiling	Wall	Floor	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00
0.70	0.50	0.20	0.95	0.78	0.66	0.57	0.45	0.37	0.32	0.25	0.20
	0.30		0.80	0.67	0.58	0.51	0.41	0.34	0.30	0.23	0.19
	0.20		0.68	0.58	0.51	0.46	0.37	0.32	0.28	0.22	0.18
0.50	0.50	0.20	0.92	0.75	0.63	0.55	0.43	0.39	0.30	0.23	0.19
	0.30		0.78	0.65	0.56	0.49	0.39	0.33	0.28	0.22	0.18
	0.20		0.67	0.57	0.50	0.44	0.36	0.31	0.27	0.21	0.17
0.30	0.50	0.20	0.89	0.72	0.60	0.52	0.41	0.34	0.29	0.22	0.18
	0.30		0.76	0.63	0.54	0.47	0.38	0.32	0.27	0.21	0.17
	0.20		0.66	0.56	0.49	0.43	0.35	0.30	0.26	0.20	0.17
0.00	0.00	0.00	0.56	0.46	0.39	0.34	0.27	0.23	0.19	0.15	0.12

Rating:24W Photometrically tested without ceiling board.
Multiply UF values by service correction factors
Calculate in accordance with CIBSE Technical Memorandum NO.5 1980

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:

Utilisation Factor Table(Ceiling cavity)

Utilisation Factors UF(C)			SHR NOM = 1.25								
Room Reflectance			Room Index(RI)								
Ceiling	Wall	Floor	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00
0.70	0.50	0.20	0.17	0.19	0.19	0.20	0.21	0.22	0.22	0.23	0.23
	0.30		0.11	0.12	0.14	0.15	0.16	0.18	0.18	0.20	0.21
	0.20		0.06	0.08	0.09	0.11	0.13	0.14	0.15	0.17	0.18
0.50	0.50	0.20	0.17	0.18	0.19	0.19	0.20	0.21	0.21	0.22	0.22
	0.30		0.11	0.12	0.13	0.14	0.16	0.17	0.18	0.19	0.20
	0.20		0.06	0.08	0.09	0.10	0.12	0.14	0.15	0.17	0.18
0.30	0.50	0.20	0.16	0.17	0.18	0.19	0.19	0.20	0.20	0.21	0.21
	0.30		0.10	0.12	0.13	0.14	0.15	0.17	0.17	0.18	0.19
	0.20		0.06	0.08	0.09	0.10	0.12	0.14	0.15	0.16	0.17
0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01

Rating:24W Photometrically tested without ceiling board.
Multiply UF values by service correction factors
Calculate in accordance with CIBSE Technical Memorandum NO.5 1980

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:

Zonal Lumen

Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	320.5	0.3	0.3	0.04	0.04
1.0-2.0	320.3	0.9	1.2	0.11	0.15
2.0-3.0	320.0	1.5	2.8	0.19	0.34
3.0-4.0	319.5	2.1	4.9	0.27	0.61
4.0-5.0	318.8	2.7	7.6	0.34	0.95
5.0-6.0	318.0	3.3	11.0	0.42	1.37
6.0-7.0	316.9	3.9	14.9	0.49	1.86
7.0-8.0	315.7	4.5	19.4	0.56	2.42
8.0-9.0	314.3	5.1	24.5	0.64	3.06
9.0-10.0	312.8	5.7	30.2	0.71	3.77
10.0-11.0	311.1	6.2	36.4	0.78	4.54
11.0-12.0	309.3	6.8	43.2	0.84	5.38
12.0-13.0	307.2	7.3	50.5	0.91	6.29
13.0-14.0	305.1	7.8	58.3	0.97	7.27
14.0-15.0	302.8	8.3	66.6	1.04	8.30
15.0-16.0	300.4	8.8	75.4	1.10	9.40
16.0-17.0	297.8	9.3	84.7	1.16	10.56
17.0-18.0	295.1	9.7	94.4	1.21	11.77
18.0-19.0	292.2	10.2	104.6	1.27	13.04
19.0-20.0	289.3	10.6	115.2	1.32	14.36
20.0-21.0	286.2	11.0	126.1	1.37	15.73
21.0-22.0	283.0	11.4	137.5	1.42	17.15
22.0-23.0	279.7	11.7	149.3	1.46	18.61
23.0-24.0	276.3	12.1	161.3	1.51	20.12
24.0-25.0	272.7	12.4	173.7	1.55	21.67
25.0-26.0	269.1	12.7	186.4	1.58	23.25
26.0-27.0	265.4	13.0	199.4	1.62	24.87
27.0-28.0	261.6	13.2	212.7	1.65	26.52
28.0-29.0	257.7	13.5	226.2	1.68	28.21
29.0-30.0	253.8	13.7	239.9	1.71	29.92
30.0-31.0	249.8	13.9	253.8	1.73	31.65
31.0-32.0	245.7	14.1	267.9	1.76	33.41
32.0-33.0	241.6	14.2	282.1	1.78	35.18
33.0-34.0	237.4	14.4	296.5	1.79	36.97
34.0-35.0	233.1	14.5	310.9	1.81	38.78
35.0-36.0	228.8	14.6	325.5	1.82	40.60

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:

Zonal Lumen (Continue 1)

Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
36.0-37.0	224.4	14.6	340.1	1.83	42.42
37.0-38.0	220.0	14.7	354.8	1.83	44.25
38.0-39.0	215.6	14.7	369.5	1.84	46.09
39.0-40.0	211.1	14.7	384.3	1.84	47.92
40.0-41.0	206.5	14.7	399.0	1.83	49.76
41.0-42.0	201.9	14.7	413.6	1.83	51.59
42.0-43.0	197.4	14.6	428.3	1.82	53.41
43.0-44.0	192.8	14.6	442.8	1.81	55.23
44.0-45.0	188.1	14.5	457.3	1.80	57.03
45.0-46.0	183.4	14.3	471.6	1.79	58.82
46.0-47.0	178.7	14.2	485.8	1.77	60.59
47.0-48.0	174.0	14.1	499.9	1.75	62.35
48.0-49.0	169.3	13.9	513.8	1.73	64.08
49.0-50.0	164.6	13.7	527.5	1.71	65.79
50.0-51.0	159.8	13.5	541.1	1.69	67.48
51.0-52.0	155.0	13.3	554.4	1.66	69.14
52.0-53.0	150.3	13.1	567.4	1.63	70.77
53.0-54.0	145.5	12.8	580.3	1.60	72.37
54.0-55.0	140.6	12.6	592.8	1.57	73.93
55.0-56.0	135.8	12.3	605.1	1.53	75.47
56.0-57.0	131.0	12.0	617.1	1.49	76.96
57.0-58.0	126.2	11.7	628.7	1.46	78.42
58.0-59.0	121.4	11.3	640.1	1.42	79.83
59.0-60.0	116.5	11.0	651.1	1.37	81.20
60.0-61.0	111.6	10.7	661.7	1.33	82.53
61.0-62.0	106.8	10.3	672.0	1.28	83.81
62.0-63.0	101.9	9.9	681.9	1.24	85.05
63.0-64.0	96.9	9.5	691.5	1.19	86.24
64.0-65.0	92.0	9.1	700.6	1.14	87.37
65.0-66.0	87.0	8.7	709.2	1.08	88.45
66.0-67.0	82.1	8.3	717.5	1.03	89.48
67.0-68.0	77.1	7.8	725.3	0.97	90.46
68.0-69.0	72.2	7.4	732.7	0.92	91.38
69.0-70.0	67.3	6.9	739.6	0.86	92.24
70.0-71.0	62.4	6.4	746.0	0.80	93.04
71.0-72.0	57.6	6.0	752.0	0.75	93.79

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:

Zonal Lumen (Continue 2)

Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
72.0-73.0	52.8	5.5	757.5	0.69	94.48
73.0-74.0	48.1	5.1	762.6	0.63	95.11
74.0-75.0	43.4	4.6	767.2	0.57	95.68
75.0-76.0	38.8	4.1	771.3	0.51	96.20
76.0-77.0	34.4	3.7	775.0	0.46	96.65
77.0-78.0	30.0	3.2	778.2	0.40	97.05
78.0-79.0	25.8	2.8	781.0	0.35	97.40
79.0-80.0	21.7	2.3	783.3	0.29	97.69
80.0-81.0	18.0	1.9	785.2	0.24	97.93
81.0-82.0	14.4	1.6	786.8	0.19	98.13
82.0-83.0	11.1	1.2	788.0	0.15	98.28
83.0-84.0	8.2	0.9	788.9	0.11	98.39
84.0-85.0	5.8	0.6	789.5	0.08	98.47
85.0-86.0	3.8	0.4	789.9	0.05	98.52
86.0-87.0	2.4	0.3	790.2	0.03	98.55
87.0-88.0	1.5	0.2	790.4	0.02	98.57
88.0-89.0	1.0	0.1	790.5	0.01	98.59
89.0-90.0	0.8	0.1	790.6	0.01	98.60
90.0-91.0	0.8	0.1	790.7	0.01	98.61
91.0-92.0	0.8	0.1	790.7	0.01	98.62
92.0-93.0	0.8	0.1	790.8	0.01	98.63
93.0-94.0	0.8	0.1	790.9	0.01	98.64
94.0-95.0	0.9	0.1	791.0	0.01	98.65
95.0-96.0	0.9	0.1	791.1	0.01	98.67
96.0-97.0	0.9	0.1	791.2	0.01	98.68
97.0-98.0	0.9	0.1	791.3	0.01	98.69
98.0-99.0	1.0	0.1	791.4	0.01	98.70
99.0-100.0	1.0	0.1	791.5	0.01	98.72
100.0-101.0	1.0	0.1	791.6	0.01	98.73
101.0-102.0	1.1	0.1	791.8	0.01	98.75
102.0-103.0	1.1	0.1	791.9	0.01	98.76
103.0-104.0	1.1	0.1	792.0	0.02	98.78
104.0-105.0	1.1	0.1	792.1	0.02	98.79
105.0-106.0	1.2	0.1	792.2	0.02	98.81
106.0-107.0	1.2	0.1	792.4	0.02	98.82
107.0-108.0	1.2	0.1	792.5	0.02	98.84

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:

Zonal Lumen (Continue 3)

Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
108.0-109.0	1.3	0.1	792.6	0.02	98.86
109.0-110.0	1.3	0.1	792.8	0.02	98.87
110.0-111.0	1.4	0.1	792.9	0.02	98.89
111.0-112.0	1.4	0.1	793.1	0.02	98.91
112.0-113.0	1.4	0.1	793.2	0.02	98.93
113.0-114.0	1.5	0.1	793.3	0.02	98.94
114.0-115.0	1.5	0.1	793.5	0.02	98.96
115.0-116.0	1.5	0.2	793.6	0.02	98.98
116.0-117.0	1.6	0.2	793.8	0.02	99.00
117.0-118.0	1.6	0.2	794.0	0.02	99.02
118.0-119.0	1.6	0.2	794.1	0.02	99.04
119.0-120.0	1.7	0.2	794.3	0.02	99.06
120.0-121.0	1.7	0.2	794.4	0.02	99.08
121.0-122.0	1.8	0.2	794.6	0.02	99.10
122.0-123.0	1.8	0.2	794.8	0.02	99.12
123.0-124.0	1.8	0.2	794.9	0.02	99.14
124.0-125.0	1.9	0.2	795.1	0.02	99.16
125.0-126.0	1.9	0.2	795.3	0.02	99.19
126.0-127.0	1.9	0.2	795.5	0.02	99.21
127.0-128.0	2.0	0.2	795.6	0.02	99.23
128.0-129.0	2.0	0.2	795.8	0.02	99.25
129.0-130.0	2.1	0.2	796.0	0.02	99.27
130.0-131.0	2.1	0.2	796.1	0.02	99.29
131.0-132.0	2.1	0.2	796.3	0.02	99.32
132.0-133.0	2.2	0.2	796.5	0.02	99.34
133.0-134.0	2.2	0.2	796.7	0.02	99.36
134.0-135.0	2.2	0.2	796.9	0.02	99.38
135.0-136.0	2.3	0.2	797.0	0.02	99.40
136.0-137.0	2.3	0.2	797.2	0.02	99.43
137.0-138.0	2.3	0.2	797.4	0.02	99.45
138.0-139.0	2.4	0.2	797.5	0.02	99.47
139.0-140.0	2.4	0.2	797.7	0.02	99.49
140.0-141.0	2.4	0.2	797.9	0.02	99.51
141.0-142.0	2.5	0.2	798.1	0.02	99.53
142.0-143.0	2.5	0.2	798.2	0.02	99.55
143.0-144.0	2.5	0.2	798.4	0.02	99.57

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:

Zonal Lumen (Continue 4)

Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
144.0-145.0	2.6	0.2	798.6	0.02	99.59
145.0-146.0	2.6	0.2	798.7	0.02	99.61
146.0-147.0	2.6	0.2	798.9	0.02	99.63
147.0-148.0	2.7	0.2	799.0	0.02	99.65
148.0-149.0	2.7	0.2	799.2	0.02	99.67
149.0-150.0	2.7	0.2	799.3	0.02	99.69
150.0-151.0	2.7	0.1	799.5	0.02	99.71
151.0-152.0	2.8	0.1	799.6	0.02	99.73
152.0-153.0	2.8	0.1	799.8	0.02	99.75
153.0-154.0	2.8	0.1	799.9	0.02	99.76
154.0-155.0	2.8	0.1	800.0	0.02	99.78
155.0-156.0	2.9	0.1	800.2	0.02	99.80
156.0-157.0	2.9	0.1	800.3	0.02	99.81
157.0-158.0	2.9	0.1	800.4	0.02	99.83
158.0-159.0	2.9	0.1	800.5	0.01	99.84
159.0-160.0	2.9	0.1	800.7	0.01	99.86
160.0-161.0	3.0	0.1	800.8	0.01	99.87
161.0-162.0	3.0	0.1	800.9	0.01	99.88
162.0-163.0	3.0	0.1	801.0	0.01	99.89
163.0-164.0	3.0	0.1	801.1	0.01	99.91
164.0-165.0	3.0	0.1	801.1	0.01	99.92
165.0-166.0	3.0	0.1	801.2	0.01	99.93
166.0-167.0	3.0	0.1	801.3	0.01	99.94
167.0-168.0	3.0	0.1	801.4	0.01	99.95
168.0-169.0	3.1	0.1	801.4	0.01	99.95
169.0-170.0	3.1	0.1	801.5	0.01	99.96
170.0-171.0	3.1	0.1	801.6	0.01	99.97
171.0-172.0	3.1	0.1	801.6	0.01	99.98
172.0-173.0	3.1	0.0	801.7	0.01	99.98
173.0-174.0	3.2	0.0	801.7	0.00	99.99
174.0-175.0	3.2	0.0	801.7	0.00	99.99
175.0-176.0	3.2	0.0	801.8	0.00	99.99
176.0-177.0	3.2	0.0	801.8	0.00	100.00
177.0-178.0	3.2	0.0	801.8	0.00	100.00
178.0-179.0	3.2	0.0	801.8	0.00	100.00
179.0-180.0	3.2	0.0	801.8	0.00	100.00

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector: